

SOLUTIONS TO END-OF-CHAPTER PROBLEMS

Section 1.1 Standards of Length, Mass, and Time

P1.1 (a) Modeling the Earth as a sphere, we find its volume as

$$\frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6.37 \times 10^6 \text{ m})^3 = 1.08 \times 10^{21} \text{ m}^3$$

Its density is then

$$\rho = \frac{m}{V} = \frac{5.98 \times 10^{24} \text{ kg}}{1.08 \times 10^{21} \text{ m}^3} = [5.52 \times 10^3 \text{ kg/m}^3]$$

(b) This value is intermediate between the tabulated densities of aluminum and iron. Typical rocks have densities around 2000 to 3000 kg/m³. The average density of the Earth is significantly higher, so higher-density material must be down below the surface.

P1.2 (a) $\rho = m/V$ and $V = (4/3)\pi r^3 = (4/3)\pi(d/2)^3 = \pi d^3/6$, where d is the diameter.

$$\text{Then } \rho = 6m / \pi d^3 = \frac{6(1.67 \times 10^{-27} \text{ kg})}{\pi(2.4 \times 10^{-15} \text{ m})^3} = [2.3 \times 10^{17} \text{ kg/m}^3]$$

(b) $\frac{2.3 \times 10^{17} \text{ kg/m}^3}{22.6 \times 10^3 \text{ kg/m}^3} = [1.0 \times 10^{13} \text{ times the density of osmium}]$

P1.3 For sphere the volume is $V = \frac{4}{3}\pi r^3$ and the mass is $m = \rho V = \rho \frac{4}{3}\pi r^3$.

We divide this equation for the larger sphere by the same equation for the smaller:

$$\frac{m_s}{m_e} = \frac{\rho(4/3)\pi r_s^3}{\rho(4/3)\pi r_e^3} = \frac{r_s^3}{r_e^3} = 5$$

$$\text{Then } r_s = r_e \sqrt[3]{5} = (4.50 \text{ cm}) \sqrt[3]{5} = [7.69 \text{ cm}]$$

Chapter 16 Physics Solution Manual

Keith H. Brown

Chapter 16 Physics Solution Manual:

Solutions Manual for Giancoli's Physics, Principles with Applications, 2nd Edition John F. Reading, 1985

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Solutions Manual for Giancoli Physics, Principles with Applications Keith H. Brown, 1980 *Physics Volume 1: an Introduction* *Instructor's Solutions Manual* Walker, 2001-04 *Introductory College Physics, Solutions Manual* Atam Parkash Arya, 1979

Solutions Manual for Fundamentals of Physics John Merrill, 1970 *Study Guide and Student Solutions Manual for Wilson College Physics* David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner. Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools, it provides a wide range of relevant applications and illustrative examples. This book discusses mechanics, thermodynamics, and oscillations, and wave motion. For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations, devices and topics.

Fundamentals of Physics, Solutions Manual Edward Derrin, David Halliday, Robert Resnick, 1988-08-30 This third edition of the famous introductory physics text has been thoroughly revised and updated. The new edition contains two entirely new chapters: Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version. New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest. Each essay is self-contained and is written by an expert in the topic. The body of the text contains more help in problem solving and the chapter sections are shorter, making the material more accessible. There are more photos and diagrams than before, including attention-getting chapter head photos and captions. The number of worked examples has been increased, as has the number of questions, exercises, and problems. In addition, a thread of ideas from relativistic and quantum physics is woven through the earlier chapters, preparing the way for the later chapters.

Student's Solutions Manual to Accompany University Physics, 1984 *Calculus* Dennis Zill, Warren S. Wright, 2009-12-11 Appropriate for the traditional 3 term college calculus course, *Calculus: Early Transcendentals* Fourth Edition provides the student friendly presentation and robust examples and problem sets for which Dennis Zill is known. This outstanding revision incorporates all of the exceptional learning tools that have made Zill's texts a resounding success. He carefully blends the

theory and application of important concepts while offering modern applications and problem solving skills *Instructor's Manual with Solutions to Accompany Physics for Scientists and Engineers, Second Edition* Henry W. Leap,1986

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Complete Solutions Manual to Accompany Fundamentals of Physics, Fifth Edition [by] David Halliday, Robert Resnick, Jearl Walker: Chapters 1-21 Jerry J. Shi,1997 **Modern Physics** Wolfson,1999 *Student Solutions Manual for Hecht's Physics* Jerry Shi,Eugene Hecht,1998 Includes answers to odd numbered discussion questions answers with explanations to odd numbered multiple choice questions and solutions to selected odd numbered problems not already solved in the book

Solutions Manual to Accompany Intermediate Physics for Medicine and Biology Russell K. Hobbie,1988

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